

Main Criteria: Wyoming Content and Performance Standards

Secondary Criteria: Virtual Field Trips

Subjects: Science, Social Studies

Grade: 8

Correlation Options: Show Correlated

Wyoming Content and Performance Standards

Science

Grade: 8 - Adopted: 2016

CONTENT STANDARD		PHYSICAL SCIENCE
BENCHMARK	MS-PS1.	Matter and Its Interactions

GRADE LEVEL EXAMPLE MS-PS1-3. Gather and make sense of information to describe that synthetic materials come from natural resources and impact society.

Virtual Field Trips

Amazon Rainforest - People and Threats - Grades 6-8

CONTENT STANDARD		LIFE SCIENCE
BENCHMARK	MS-LS1.	From Molecules to Organisms: Structure and Processes

GRADE LEVEL EXAMPLE MS-LS1-5. Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.

Virtual Field Trips

Galapagos Islands

CONTENT STANDARD		LIFE SCIENCE
BENCHMARK	MS-LS2.	Ecosystems: Interactions, Energy, and Dynamics

GRADE LEVEL EXAMPLE MS-LS2-2. Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.

Virtual Field Trips

Amazon Rainforest - Grades 6-8

Amazon Rainforest - People and Threats - Grades 6-8

Canada: Coast to Coast

Galapagos Islands

National Parks - Alaska & Hawaii

GRADE LEVEL EXAMPLE MS-LS2-3. Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.

Virtual Field Trips

Amazon Rainforest - Grades 6-8

Amazon Rainforest - People and Threats - Grades 6-8

Galapagos Islands

GRADE LEVEL EXAMPLE	MS-LS2-4.	Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations. <u>Virtual Field Trips</u> Amazon Rainforest - Grades 6-8 Amazon Rainforest - People and Threats - Grades 6-8 Canada: Coast to Coast Galapagos Islands National Parks - Alaska & Hawaii National Parks - Washington, Oregon, Idaho, Montana, Colorado
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GRADE LEVEL EXAMPLE	MS-LS2-5.	Evaluate competing design solutions for maintaining biodiversity and ecosystem services. <u>Virtual Field Trips</u> Amazon Rainforest - People and Threats - Grades 6-8 Canada: Coast to Coast Galapagos Islands National Parks - Alaska & Hawaii National Parks - Nevada, California National Parks - Washington, Oregon, Idaho, Montana, Colorado National Parks - Wyoming, Utah
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CONTENT STANDARD		EARTH AND SPACE SCIENCE
BENCHMARK	MS-ESS2.	Earth's Systems

GRADE LEVEL EXAMPLE	MS-ESS2-1.	Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process. <u>Virtual Field Trips</u> Amazon Rainforest - People and Threats - Grades 6-8 Galapagos Islands
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GRADE LEVEL EXAMPLE	MS-ESS2-2.	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales. <u>Virtual Field Trips</u> National Parks - Alaska & Hawaii National Parks - Nevada, California National Parks - Washington, Oregon, Idaho, Montana, Colorado National Parks - Wyoming, Utah
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GRADE LEVEL EXAMPLE	MS-ESS2-3.	Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions. <u>Virtual Field Trips</u> National Parks - Alaska & Hawaii National Parks - Wyoming, Utah
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GRADE LEVEL EXAMPLE	MS-ESS2-5.	Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions. <u>Virtual Field Trips</u> Canada: Coast to Coast
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GRADE LEVEL EXAMPLE	MS-ESS2-6.	Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates. <u>Virtual Field Trips</u> Galapagos Islands
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CONTENT STANDARD		EARTH AND SPACE SCIENCE
BENCHMARK	MS-ESS3.	Earth and Human Activity

GRADE LEVEL EXAMPLE MS-ESS3-1. Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.

Virtual Field Trips

Amazon Rainforest - People and Threats - Grades 6-8

Canada: Coast to Coast

Canada: Our Northern Neighbor

National Parks - Alaska & Hawaii

National Parks - Nevada, California

GRADE LEVEL EXAMPLE MS-ESS3-3. Apply scientific principles to design a method for monitoring, evaluating, and managing a human impact on the environment.

Virtual Field Trips

Amazon Rainforest - People and Threats - Grades 6-8

Canada: Coast to Coast

Galapagos Islands

National Parks - Alaska & Hawaii

National Parks - Nevada, California

National Parks - Washington, Oregon, Idaho, Montana, Colorado

National Parks - Wyoming, Utah

GRADE LEVEL EXAMPLE MS-ESS3-4. Construct an argument supported by evidence for how changes in human population and per-capita consumption of natural resources impact Earth's systems.

Virtual Field Trips

Amazon Rainforest - People and Threats - Grades 6-8

GRADE LEVEL EXAMPLE MS-ESS3-5. Ask questions to clarify evidence of the factors that have caused changes in global temperatures over time.

Virtual Field Trips

Canada: Coast to Coast

National Parks - Washington, Oregon, Idaho, Montana, Colorado

CONTENT STANDARD		ENGINEERING DESIGN
BENCHMARK	MS-ETS2.	Engineering, Technology, Science and Society

GRADE LEVEL EXAMPLE MS-ETS2-2. Develop a model defining and prioritizing the impacts of human activity on a particular aspect of the environment, identifying positive and negative consequences of the activity, both short and long-term, and investigate and explain how the ethics and integrity of scientists and engineers and respect for individual property rights might constrain future development.

Virtual Field Trips

Amazon Rainforest - People and Threats - Grades 6-8

Canada: Coast to Coast

Galapagos Islands

National Parks - Alaska & Hawaii

National Parks - Nevada, California

National Parks - Washington, Oregon, Idaho, Montana, Colorado

National Parks - Wyoming, Utah

CONTENT STANDARD		Content Standard 1 – Citizenship, Government, and Democracy: Students analyze how people create and change structures of power, authority, and governance to understand the continuing evolution of governments and to demonstrate civic responsibility.
BENCHMARK		Benchmarks - Students will:

GRADE LEVEL EXAMPLE SS8.1.6. Understand the basic structures of various political systems (e.g., tribal, local, national, and world).

Virtual Field Trips

Canada: Our Northern Neighbor

Washington, DC - Grades 6 - 8

CONTENT STANDARD		Content Standard 2 – Culture and Cultural Diversity: Students demonstrate an understanding of the contributions and impacts of human interaction and cultural diversity on societies.
BENCHMARK		Benchmarks - Students will:

GRADE LEVEL EXAMPLE SS8.2.2. Evaluate how human expression (e.g., language, literature, arts, architecture, traditions, beliefs, and spirituality) contributes to cultural development, understanding, and continuity (e.g., oral tradition, Pow Wows, ceremonies, and assimilation).

Virtual Field Trips

Amazon Rainforest - Grades 6-8

Amazon Rainforest - People and Threats - Grades 6-8

Canada: Our Northern Neighbor

Exploring Cuba

Jerusalem - Then and Now (Older Grades)

London - City of Pomp & Majesty

CONTENT STANDARD		Content Standard 3 – Production, Distribution, and Consumption: Students describe the influence of economic factors on societies and make decisions based on economic principles.
BENCHMARK		Benchmarks - Students will:

GRADE LEVEL EXAMPLE SS8.3.4. Explain or illustrate how money is used by individuals, groups, and financial institutions.

Virtual Field Trips

Barcelona

CONTENT STANDARD		Content Standard 4 – Time, Continuity, and Change: Students analyze events, people, problems, and ideas within their historical contexts.
BENCHMARK		Benchmarks - Students will:

GRADE LEVEL EXAMPLE SS8.4.1. Describe how historical events impact the future (cause and effect) and how change spreads to other places (e.g., spread of industrial revolution or causes of the Civil War, impacts of Manifest Destiny, aftermath of French and Indian War, and progression of Indian Removal Act).

Virtual Field Trips

Ancient Egypt - Land of the Pharaohs

Ancient Egypt - Land of the Pyramids

Ancient Greece

Ancient Mayan Civilization

Ancient Rome

Canada: Coast to Coast

Canada: Our Northern Neighbor

Rome - The Eternal City

GRADE LEVEL EXAMPLE	SS8.4.4.	Identify historical interactions between and among individuals, groups, and/or institutions (e.g., family, neighborhood, political, economic, religious, social, cultural, and workplace).
		Virtual Field Trips Canada: Our Northern Neighbor
CONTENT STANDARD		Content Standard 5 – People, Places, and Environments: Students apply their knowledge of the geographic themes (location, place, movement, region, and human/environment interactions) and skills to demonstrate an understanding of interrelationships among people, places, and environment.
BENCHMARK		Benchmarks - Students will:
GRADE LEVEL EXAMPLE	SS8.5.1.	Spatial: Use and create models of the Earth to analyze the interactions of physical and human systems to demonstrate global interconnectedness. Virtual Field Trips Canada: Coast to Coast Canada: Our Northern Neighbor
GRADE LEVEL EXAMPLE	SS8.5.2.	Physical Place and Region: Analyze and evaluate how physical features and changes influenced historical events (e.g., route of Union Pacific Railroad, location of Wind River Indian Reservation, state and national monuments and parks) and participate in collaborative problem solving and decision making in the selection of professional and personal choices. Virtual Field Trips Amazon Rainforest - Grades 6-8 Amazon Rainforest - People and Threats - Grades 6-8 Canada: Coast to Coast Canada: Our Northern Neighbor
GRADE LEVEL EXAMPLE	SS8.5.3.	Human Place and Movement: Explain how communities' current and past demographics, migrations, and settlement patterns influence place (e.g., culture, needs, and political and economic systems) and use this analysis to predict future settlement patterns. Virtual Field Trips Amazon Rainforest - Grades 6-8 Amazon Rainforest - People and Threats - Grades 6-8 Canada: Coast to Coast Canada: Our Northern Neighbor
GRADE LEVEL EXAMPLE	SS8.5.4.	Environment and Society: Analyze the changes to and consequences of human, natural, and technological impacts on the physical environment. Virtual Field Trips Amazon Rainforest - Grades 6-8 Amazon Rainforest - People and Threats - Grades 6-8